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APPLICANT : BOEHRINGER MANNHEIM GMBH;

INVENTOR : MUTTER WOLFGANG DR;

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TITLE : POLYETHYLENE GLYCOL DERIVED BIOMOLECULE AND ITS USE IN
HETEROGENEITY DETECTION METHOD

ABSTRACT : PROBLEM TO BE SOLVED: To partially avoid a prior art defect of decreasing nonspecific binding to a solid phase when a body to be detected in a sample is detected by blocking the solid phase by polyalkylene oxide, particularly, a polyethylene glycol modified nonspecific biomolecule of the body to be detected.

SOLUTION: A solid phase includes an optional supporting body, preferably a supporting body with a plastic, glass, metal or metallic oxide surface, or the like porous supporting body. A solid phase reactant can be fixed, e.g. by direct absorption bond, preferably a high-affinity binding body. For this purpose, the solid phase is first coated with a first partner of the high-affinity binding body, on which a conjugate body of the solid phase reactant with a second partner of the binding body is fixed. Preferably, the method includes incubating with an alkylene oxide modified bound molecule acting as a blocking substance, thereby blocking a nonspecific bounding site on the coated solid phase by a specific solid phase reactant of a body to be detected.

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